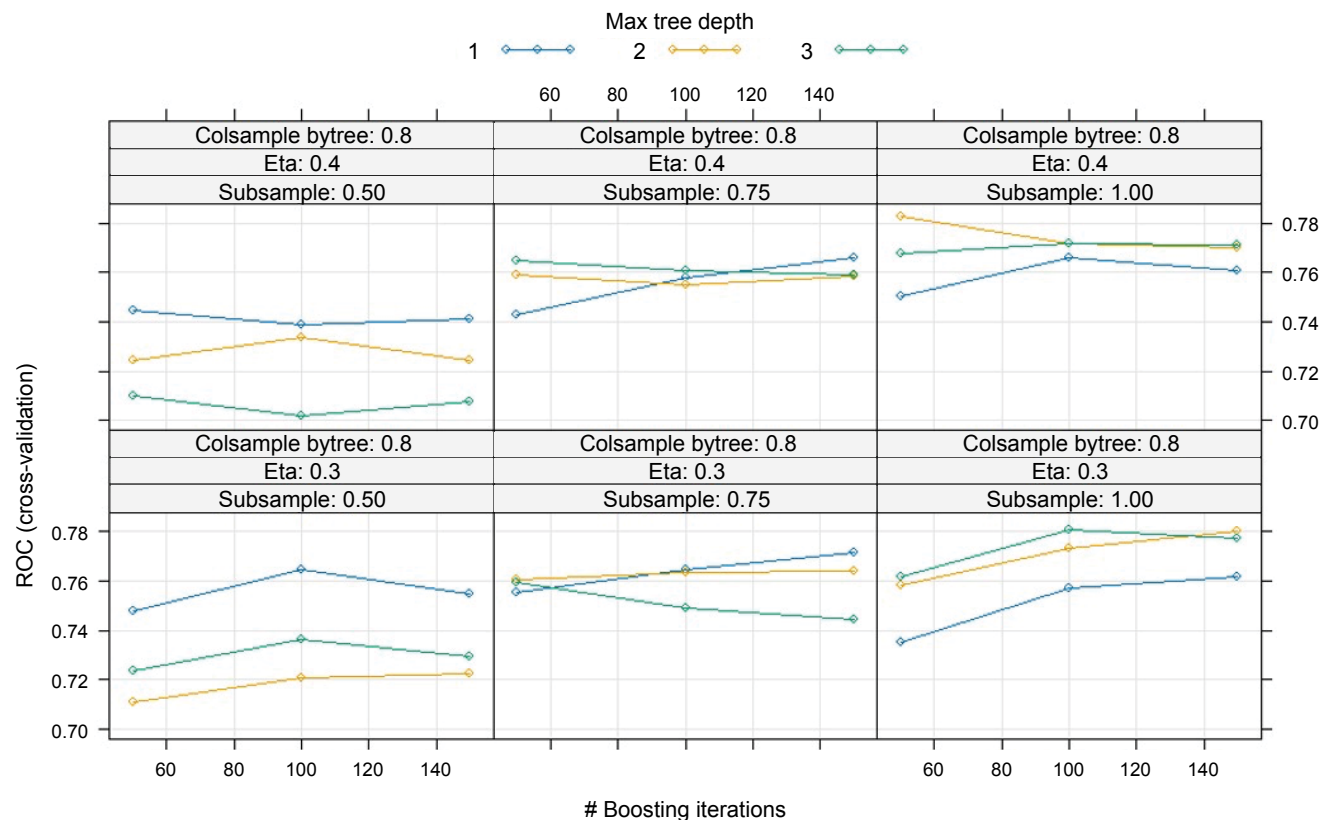




Supplementary Figure 1. Cross-validation results for XGBoost hyperparameter tuning. The figure displays the cross-validated receiver operating characteristic (ROC) scores under various combinations of hyperparameters, including the number of boosting iterations, subsample ratios (0.50, 0.75, 1.00), learning rates (eta: 0.3, 0.4), and max tree depths (1, 2, 3). The x-axis represents the number of boosting iterations and the y-axis indicates the ROC score, which measures the ability of the model to distinguish between classes. Each panel corresponds to a specific combination of subsample and eta values, with lines representing different tree depths.